Twenty-two INL researchers honored at R&D 100 Awards Dinner

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On Oct. 19, four INL teams received awards at the annual R&D 100 Awards Dinner held at Navy Pier in Chicago. The 22 researchers comprising the four teams continue a 10-year tradition for INL, pushing the laboratory's total number of awards to 37.

"It was most impressive and satisfying to see some of our finest researchers honored for their inspiration and perspiration at this awards dinner. They truly rank among the top researchers in the world and R&D Magazine made this event a festive gala," said Chief Research Officer Bill Rogers. "I am very proud of the personal recognition these inventors have received and the added luster they have brought to INL's reputation."

The technologies and those honored at the dinner include:

Nano-Composite Arsenic Sorbent (N-CAS) - Troy Tranter, Nick Mann, Scott Herbst and Terry Todd developed a long-lasting, high-capacity nano-composite polymer particle engineered to remove arsenic concentrations from water - rendering it safe to drink and compliant with U.S. and world drinking-water standards.

Fact Sheet: Nano-Composite Arsenic Sorbent - 1.8MB PDF
Video: Nano-Composite Arsenic Sorbent - 5.1MB WMV, Script - 9kB PDF

Terry Todd, Troy Tranter and Nick Mann pose with their R&D 100 Award.

Compact High-Efficiency Natural Gas Liquefier - Bruce Wilding, Terry Turner, Mike McKellar, Kerry Klingler, Dennis Bingham, Frank Carney and Douglas Stacey have perfected a new, patented process to make liquefied natural gas (LNG) directly from pipeline gas without pretreatment for CO_2 removal at prices competitive with large-scale LNG plants.

Fact Sheet: New LNG Plant Technology - 141kB PDF
Video: Compact High Efficiency Natural Gas Liquefier - 3.9MB WMV, Script - 9kB PDF

Frank Carney, Terry Turner, Bruce Wilding, Mike McKellar, Kerry Klingler and Douglas Stacey pose with their R&D 100 Award.

INL Robot Intelligence Kernel - David Bruemmer, Douglas Few, Miles Walton, Curtis Nielsen and Robert Kinoshita have developed a low-cost, onboard control architecture that gives robots exceptional new levels of autonomy and intelligence that revolutionizes robot capabilities and the robot/operator relationship.

Fact Sheet: Intelligence Kernel Enables Robot Autonomy - 310kB PDF
Video: INL Robot Intelligence Kernel - 8.5MB WMV, Script - 10kB PDF

Curtis Nielsen, Miles Walton, David Bruemmer and Robert Kinoshita pose with their R&D 100 Award.

Xtreme Xylanase (Hemicellulase) - Bill Apel, Vicki Thompson, David Thompson, Kastli Schaller, Elizabeth Taylor and Morgan Bruno discovered a highly acidic and thermostable xylanase (enzyme) that breaks down cellulose and hemicellulose from biomass into simple sugars used to produce fuels and chemicals.

Fact Sheet: Xtreme Xylanase Discovery Aims to Revolutionize Biorefineries - 245kB PDF
Video: Xtreme Xylanase - 4.8MB WMV, Script - 10kB PDF

Kastli Schaller, Vicki Thompson, David Thompson, Morgan Bruno and Elizabeth Taylor pose with their R&D 100 Award.

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